



METHOD AND APPARATUS FOR ADJUSTING GRAPHICS PROCESSING  
PROCEDURES BASED ON A SELECTABLE SPEED/QUALITY GAUGE

ABSTRACT OF THE DISCLOSURE

- 5 A method and apparatus that adjusts certain graphics processing procedures based on a selectable speed/quality (S/Q) adjustment gauge. The S/Q adjustment can be tuned within a predetermined range (e.g., 0 to 255) where on one side, speed is represented over image quality while on the other side, image quality is represented over speed. Settings between
- 10 the ends give proportional representation for speed and quality. A first graphics process determines whether linear or perspective texture mapping processes are to be used on the selected polygon based on: 1) the size of the polygon measured against a predetermined size threshold; and 2) the relative perspective of the polygon measured against a perspective
- 15 threshold. The S/Q setting alters these thresholds to alter the operation of the first graphics procedure. A second graphics process splits a selected polygon graphics primitive based on the relative perspective of the polygon compared to a predetermined perspective threshold. The S/Q setting alters the predetermined perspective threshold to alter the operation of the second
- 20 graphics procedure. A third graphics process splits the selected polygon based on: 1) the size of the polygon; and 2) the orthogonal span of the polygon. The S/Q setting alters the operation of the third graphics procedure. Lastly, a fourth graphics process selects either fixed point or floating point calculations for certain graphics operations on the primitive.
- 25 The S/Q setting alters the thresholds for the selection within the fourth graphics procedure.